

# Giorgio Zanoni

+39 335 148 7257

✉ giorgiozanoni91@gmail.com

Birth Date: 12.07.1991 - Nationality: Italian

<https://orcid.org/0000-0003-2543-9768>

## EDUCATION

Professional practice examination ("abilitazione")

**Chemist**

Nov. 2020

Master

**Chemistry**

2017 – 2019

University of Padua (IT)

Thesis: "Synthesis of polyoxometalates with potential biological activity"

Grade: 110/110

Erasmus Mobility

**Chemistry**

2018 – 2019

Justus-Liebig-Universität, Giessen (DE)

Bachelor

**Chemistry**

2014 – 2017

University of Padua (IT)

Thesis: "Utilizzo della tecnica FT-IR per l'analisi del contenuto di glucosio e fruttosio in mosti d'uva da vino"

Grade: 100/110

## LANGUAGE SKILLS

Italian:

Native

English:

Upper Intermediate (B2)

German:

Advanced beginner (A2)

## WORK EXPERIENCE

### Researcher - Metabolomics

May 2022 – Present

**Edmund Mach Foundation, Trento, Italy**

Targeted and untargeted metabolomics analysis in nutrition and agronomics.

Development and execution of targeted analysis via LC-MS and GC-MS. Main analytes researched are:

- Terpenes, norisoprenoids, other wine volatile compounds
- Volatile thiols
- Polyphenols
- Glucosinolates
- Terpene glycosides

Isolation of natural compounds via preparative HPLC and Centrifugal Partition Chromatography and characterization of compounds via HRMS and NMR

Synthesis of natural compounds and metabolites

LC-MS training for visitor students and researchers, co-supervisor in experimental projects aimed at thesis writing.

### Laboratory Technician

April 2021 – May 2022

**Edmund Mach Foundation, Trento, Italy**

Development of new methods for the determination of analytes in the field of food chemistry.

Execution of certified analyses (ISO 17025) on wine and must:

- Chloride and sulfate (IC- ConD);
- Ochratoxin A (immunoaffinity SPE followed by HPLC-FLD);
- Sorbic acid (HPLC-DAD).

Preparation of samples and execution of analyses on food and beverages for the determination of:

- Water-soluble vitamins, alkaloids, mycotoxins, cinnamic acids and flavonols (UHPLC-Orbitrap);
- Organic acids, inorganic anions, carbohydrates, cyanide and sulphide (IC-ConD, IC-PAD);

### Laboratory Technician

June 2020 – March 2021

**Teralab, Trento, Italy**

Implementation of ISO and EPA methods for environmental parameters.

Execution of environmental analyses:

- Trace elements (ICP-MS);
- Organic contaminants (GC-FID, GC-ECD, GC-MS);

Typical environmental matrices:

- Soils, solid wastes and wastewaters;
- Drinking waters, surface and underground waters;

## ANALYTICAL SKILLS

Mass Spectrometry	●●●
NMR (1D and 2D)	●●●
HPLC	●●●
ICP-MS	●●●
Ion Chromatography	●●●
Gas chromatography	●●●

## OTHER EXPERIENCES

### Blood donor

March 2020 - present  
Associated effective blood donor.

AVIS

### Volunteer

Dec. 2014  
First aid course.

Red Cross

### Volunteer

2012 - 2014, 2024 - 2025  
Team leader in the Italian scout association.

AGESCI

## RECENT TRAININGS

### International School on Mass Spectrometry 2024

September 2024  
*Italian Chemists Association –  
Ettore Majorana Foundation*

Ion mobility mass spectrometry: Fundamentals, Advances, and Applications

### Corso di spettrometria di massa 2022

March 2022  
*Italian Chemists Association*  
Training on theoretical bases, practical applications and modern aspects of mass spectrometry

### Introduction to structural crystallography and diffraction

June 2018  
*University of Padua*  
School: X-ray based methods for the investigation of molecules and materials, with special focus on X-ray diffraction

## RECENT PUBLICATIONS

### Insight on Lugana wines flavor with a new LC-MS method for the detection of polyfunctional thiols

June 2025  
*Journal of Food Composition and Analysis*  
DOI: 10.1016/j.jfca.2025.107458

### Polyphenol Composition of Traditional Decoctions from Polygoni Cuspidati Rhizoma et Radix of Different Origin and Their Impact on Human Gingival Fibroblasts

February 2025  
*Applied Science*  
DOI: 10.3390/app15041914

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Trento, 31 October 2025

Giorgio Zanoni

